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**From:** Libelo, Laurence [Libelo.Laurence@epa.gov]  
**Sent:** 8/28/2017 6:25:59 PM  
**To:** Lindstrom, Andrew [Lindstrom.Andrew@epa.gov]; Allenbach, Becky [Allenbach.Becky@epa.gov]  
**CC:** Kemker, Carol [Kemker.Carol@epa.gov]; Walker, Mary [walker.mary@epa.gov]; Hall, Renea [Hall.Renea@epa.gov]; Washington, John [Washington.John@epa.gov]; Strynar, Mark [Strynar.Mark@epa.gov]; Watkins, Tim [Watkins.Tim@epa.gov]; Buckley, Timothy [Buckley.Timothy@epa.gov]  
**Subject:** Re: GenX waste final disposal?

Andy,

There is some open literature info on the fluoroether's thermal degradation. Generally they degrade at fairly low temperatures. The studies I have seen show that they degrade at 200-300 C pretty completely. I am not sure what they go to.

The larger polymers form monomers I believe. The dimer and trimers probably are degraded to HF and CO<sub>2</sub>. I will look at see if we more information that I can can.

We have a lot of CBI information on GENX.

Laurence

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**From:** Lindstrom, Andrew  
**Sent:** Friday, August 25, 2017 8:30:45 AM  
**To:** Allenbach, Becky  
**Cc:** Kemker, Carol; Walker, Mary; Hall, Renea; Washington, John; Libelo, Laurence; Strynar, Mark; Watkins, Tim; Buckley, Timothy  
**Subject:** RE: GenX waste final disposal?

Becky,

Yes, we were hoping that you would be able to make it here for this briefing.

Let's plan on getting together after the formal presentations - we should have plenty of time.

Thank you very much,

Andy

-----Original Message-----

**From:** Allenbach, Becky  
**Sent:** Friday, August 25, 2017 8:25 AM  
**To:** Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>  
**Cc:** Kemker, Carol <Kemker.Carol@epa.gov>; Walker, Mary <walker.mary@epa.gov>; Hall, Renea <Hall.Renea@epa.gov>; Washington, John <Washington.John@epa.gov>; Libelo, Laurence <Libelo.Laurence@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; Watkins, Tim <Watkins.Tim@epa.gov>  
**Subject:** Re: GenX waste final disposal?

Andy/Mark:

I will be at ORD on Monday for the meeting with NC. Would you have time to talk more about this after that meeting? Perhaps we could have Carol on the phone.

Becky B. Allenbach  
Acting Deputy Director

> On Aug 24, 2017, at 2:36 PM, Lindstrom, Andrew <Lindstrom.Andrew@epa.gov> wrote:  
>  
> Becky,  
>  
> Please check out Mark's slides.  
>  
> It probably wouldn't be a good thing to have the GenX hydride emitted as a stack emission either.  
>  
> I'd like to understand exactly where the GenX waste is going.  
>  
> I'm not cleared for CBI either.  
>  
> I've added another document that could be relevant for understanding emissions from the current incineration practice.  
>  
> Thank you,  
>  
> Andy  
>  
>  
> From: Strynar, Mark  
> Sent: Thursday, August 24, 2017 2:11 PM  
> To: Allenbach, Becky <Allenbach.Becky@epa.gov>; Kemker, Carol  
> <Kemker.Carol@epa.gov>; Walker, Mary <walker.mary@epa.gov>; Lindstrom,  
> Andrew <Lindstrom.Andrew@epa.gov>; Washington, John  
> <Washington.John@epa.gov>  
> Cc: Hall, Renea <Hall.Renea@epa.gov>  
> Subject: RE: GenX waste final disposal?  
>  
> I am no longer TSCA CBI cleared.  
>  
> However this process if it is what you are referring to is not CBI. It is in the DuPont GenX publically available brochure.  
>  
> Mark  
>  
>  
> From: Allenbach, Becky  
> Sent: Thursday, August 24, 2017 12:20 PM  
> To: Kemker, Carol <Kemker.Carol@epa.gov<mailto:Kemker.Carol@epa.gov>>;  
> Walker, Mary <walker.mary@epa.gov<mailto:walker.mary@epa.gov>>;  
> Lindstrom, Andrew  
> <Lindstrom.Andrew@epa.gov<mailto:Lindstrom.Andrew@epa.gov>>;  
> Washington, John  
> <Washington.John@epa.gov<mailto:Washington.John@epa.gov>>; Strynar,  
> Mark <Strynar.Mark@epa.gov<mailto:Strynar.Mark@epa.gov>>  
> Cc: Hall, Renea <Hall.Renea@epa.gov<mailto:Hall.Renea@epa.gov>>  
> Subject: FW: GenX waste final disposal?  
>  
> Andy:  
>  
> We know that it is being sent offsite for incineration and heard from our NPDES folks that went onsite that they plan to install a thermal oxidizer at the plant in the next 2 years. I am copying Carol in the TSCA program to see if she has the info and it can be released. Are you all TSCA CBI certified if we need to communicate in another manner?  
>  
> Becky  
>  
> Becky B. Allenbach, Acting Deputy Director Water Protection Division  
> EPA Region 4 – Atlanta

> Office: 404-562-9687  
> Cell: Ex. 6 Personal Privacy (PP)  
>  
> From: Lindstrom, Andrew  
> Sent: Thursday, August 24, 2017 8:49 AM  
> To: Allenbach, Becky  
> <Allenbach.Bekky@epa.gov<mailto:Allenbach.Bekky@epa.gov>>  
> Cc: Strynar, Mark <Strynar.Mark@epa.gov<mailto:Strynar.Mark@epa.gov>>;  
> Washington, John  
> <Washington.John@epa.gov<mailto:Washington.John@epa.gov>>  
> Subject: GenX waste final disposal?  
>  
> Becky,  
>  
> I'm wondering if anyone knows where GenX waste from the Fayetteville facility is now going for final disposal.  
>  
> I think I've heard that it may be going someplace in Arkansas, but I really don't know anything more than that.  
>  
> I'm concerned because GenX does not degrade in the environment and simply transporting it to another state may be compounding the problem.  
>  
> I'm reminded of the fact that DuPont sent PFOA-related wastes from their Parkersburg Washington Works site to 11 different locations in 4 different states. The attached document summarizes their records as of 2009. Some of this waste was disposed of using land application techniques that almost certainly led to contamination of surface and groundwater. Other portions of this waste were landfilled. As far as I know there has not been a comprehensive evaluation of this liability.  
>  
> This comes to mind partly because I was contacted by a groundwater specialist from the Ohio EPA yesterday who was looking for information about their potential PFAS concerns. They are aware of the 6 disposal sites listed in the attached document and were seeking more information about potential impacts.  
>  
> I'm hoping that we will be able to avoid a similar situation with GenX.  
>  
> Thank you,  
>  
> Andy  
>  
>  
> <highlighted Chemours\_GenX\_Brochure\_Final\_07July2010.pdf>  
> <Strynar GenX thermal conversion.pptx> <Emissions from incineration of  
> fluoropolymer materials.pdf>